



U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

**INFORMATION DISCLOSURE
STATEMENT**

Docket Number
10052/4601

Application Number
10/769,599

Filing Date
January 30, 2004

Examiner
Not Yet Assigned

Art Unit
Not Yet Assigned

Invention Title

**IMPROVEMENT OF OLED EFFICIENCY BY
UTILIZATION OF DIFFERENT DOPING
CONCENTRATIONS WITHIN THE DEVICE
EMISSIVE LAYER**

Inventor(s)
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I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

Date: 4/8/04

Signature:

Thomas F. Meagher (Reg. No. 29,831)

1. In accordance with the duty of disclosure under 37 C.F.R. § 1.56 and in conformance with the procedures of 37 C.F.R. §§ 1.97 and 1.98 and M.P.E.P. § 609, attorneys for Applicants hereby bring the following references to the attention of the Examiner. The references are listed on the attached modified PTO Form No. 1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.
2. A copy of each patent, publication or other information listed on the modified PTO form 1449 is enclosed, unless otherwise indicated.
3. It is believed that no fees are due in connection with this Information Disclosure Statement. However, should any fees be due, the Commissioner is authorized to charge Deposit Account No. 11-0600 for such fees. A duplicate copy of this communication is enclosed for charging purposes.

Dated: 4/8/04

By:

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APR 12 2004

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
PTO-1449**

	DOCKET NO. 10052/4601	SERIAL NO. 10/769,599
	APPLICANT ADAMOVICH et al.	
	FILING DATE January 30, 2004	GROUP Not Yet Assigned

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	PUBLICATION DATE	NAME	CLASS	SUBCLASS	FILING DATE
	4,769,292	September 6, 1988	Tang et al.			
	5,247,190	September 21, 1993	Friend et al.			
	5,703,436	December 30, 1997	Forrest et al.			
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	5,834,893	November 10, 1998	Bulovic et al.			
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	6,013,982	January 11, 2000	Thompson et al.			
	6,087,196	July 11, 2000	Sturm et al.			
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	6,097,147	August 1, 2000	Baldo et al.			
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	WO 02/074015	September 19, 2002	PCT				

OTHER DOCUMENTS

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
	'	Baldo et al., "Highly Efficient Phosphorescent Emission from Organic Electroluminescent Devices," Nature, vol. 395, 151-154 (1998)
	'	Baldo et al., "Very high-efficiency green organic light-emitting devices based on electrophosphorescence," Applied Physics Letters, Vol. 75, No. 1, (1999).
	-	Adachi et al., "Nearly 100% Internal Phosphorescent Efficiency in an Organic Light Emitting Device", J. Appl. Phys., 90, 5048 (2001)
	-	Adachi, et al., "High-efficiency organic electrophosphorescent devices with tris (2-phenylpyridine) iridium doped into electron-transporting materials," Applied Physics Letters, Vo. 77, No. 6 (2000).
	-	Baldo et al., « Transient Analysis of organic electrophosphorescence : I. Transient analysis of triplet energy transfer », Physical Review B, 2000, 62(16), pp. 10958-10966.
		Lu et al., U.S. Patent Application Serial No. 09/931,948., filed August 20, 2001, entitled "Transparent

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S P E APR 12 2004 EXAMINER TRADEMARK OFFICE		Electrodes". Shtein et al., U.S. Patent Application Serial No. 10/233,470, filed September 4, 2002, entitled "Process and Apparatus for Organic Vapor Jet Deposition".
EXAMINER TRADEMARK OFFICE		DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		